

Application No. 10/728,312
Amendment dated December 11, 2006
Reply to Office action of June 14, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1- 20 (canceled)

Claim 21 (presently amended): ~~An improved~~ In a combination comprising a capsule and a medicinal powder inhaler device ~~of the sort~~ comprising,

(a) a generally cylindrical capsule having an outer surface, a longitudinal axis and containing a pharmaceutically active inhalable medicament, and

(b) a medicinal powder inhaler device of the sort comprising,

(1) a capsule chamber for receiving the capsule, said capsule chamber having an inner surface, an inlet proximate a first end, for admitting air into the chamber and an outlet, proximate a second end, which communicates with a mouthpiece, the axis of the chamber being the line running between the first and second ends, by means of which mouthpiece a patient can draw by inhalation a stream of air which flows from the inlet, through the capsule chamber, wherein it admixes with medicament which has been released from a capsule that has been received by the chamber, thence through the outlet and finally from the mouthpiece from whence the patient may inhale the mixture of air and medicament, said capsule chamber being configured to enable a capsule received therein to vibrate longitudinally (in the direction of air flow) and also transversely (at right angles to the direction of flow) while remaining aligned substantially parallel to the chamber axis when air is caused to pass through the chamber in response to inhalation by the patient, and

(2) means for piercing a capsule placed into the capsule chamber, to thereby release medicament from the capsule into the capsule chamber,

~~wherein said improvement comprises~~ the improvement comprising the inclusion of raised elements on either the inner surface of said capsule chamber or the outer surface of said capsule, which raised elements align the axis of the capsule with the axis and the capsule chamber and which constrain the capsule, when it vibrates within the capsule chamber, to move back and forth along its longitudinal axis with essentially no transverse movement.

Claim 22 (presently amended): ~~An improved~~ In a medicinal powder inhaler device ~~of the sort~~ comprising,

(a) a capsule chamber an inner surface, for receiving a generally cylindrical capsule having a longitudinal axis and containing a pharmaceutically active inhalable medicament, said capsule chamber having an inlet proximate a first end, for admitting air into the chamber and an outlet, proximate a second end, which communicates with a mouthpiece, the axis of the chamber being the line running between the first and second ends, by means of which mouthpiece a patient can draw by inhalation a stream of air which flows from the inlet, through the capsule chamber, wherein it admixes with medicament which has been released from a capsule that has been received by the chamber, thence through the outlet and finally from the mouthpiece from whence the patient may inhale the mixture of air and medicament, said capsule chamber being configured to enable a capsule received therein to vibrate longitudinally (in the direction of air flow) and also transversely (at right angles to the direction of flow) while remaining aligned substantially parallel to the chamber axis when air is caused to pass through the chamber in response to inhalation by the patient, and

(b) means for piercing a capsule placed into the capsule chamber, to thereby release medicament from the capsule into the capsule chamber,

~~wherein said improvement comprises~~ the improvement comprising the inclusion of raised elements on the inner surface of said capsule chamber, which raised elements align the axis of the capsule with the axis and the capsule chamber and which constrain the capsule, when it

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vibrates within the capsule chamber, to move back and forth along its longitudinal axis with essentially no transverse movement.